

Datasheet: VPA00008

**BATCH NUMBER 090714**

<b>Description:</b>	RABBIT ANTI STAT1 ALPHA
<b>Specificity:</b>	STAT1 ALPHA
<b>Other names:</b>	STAT1a
<b>Format:</b>	Purified
<b>Product Type:</b>	PrecisionAb Polyclonal
<b>Isotype:</b>	Polyclonal IgG
<b>Quantity:</b>	100 µl

## Product Details

### Applications

This product has been reported to work in the following applications. This information is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information. For general protocol recommendations, please visit [www.bio-rad-antibodies.com/protocols](http://www.bio-rad-antibodies.com/protocols).

	Yes	No	Not Determined	Suggested Dilution
Western Blotting	■			1/1000

**The PrecisionAb label is reserved for antibodies that meet the defined performance criteria within Bio-Rad's ongoing antibody validation programme. Click [here](#) to learn how we validate our PrecisionAb range.** Where this product has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. Further optimization may be required dependent on sample type.

<b>Target Species</b>	Human
<b>Species Cross Reactivity</b>	Reacts with: Mouse, Rat <b>N.B.</b> Antibody reactivity and working conditions may vary between species. Cross reactivity is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information.
<b>Product Form</b>	Purified IgG - liquid
<b>Preparation</b>	Rabbit polyclonal antibody purified by ion exchange chromatography
<b>Buffer Solution</b>	Phosphate buffered saline
<b>Preservative</b>	0.09% Sodium Azide (NaN <sub>3</sub> )

## Stabilisers

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Immunogen	Peptide corresponding to amino acids near the C-terminus of human STAT1 alpha
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## External Database Links

### UniProt:

[P42224](#)    [Related reagents](#)

### Entrez Gene:

[6772](#)    STAT1    [Related reagents](#)

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## Specificity

**Rabbit anti Human STAT1 alpha antibody** recognizes human signal transducer and activator of transcription 1-alpha also known as transcription factor ISGF-3 components p91/p84. STAT1 alpha is one of two isoforms generated by alternative splicing and encoded for by the STAT1 gene. STAT1 alpha is a ~87 kDa protein belonging to the transcription factor STAT family containing a single [SH2 domain](#). Rabbit anti Human STAT1 alpha antibody recognizes epitopes in a carboxy-terminal region of STAT1 alpha not contained in the short isoform STAT1 beta.

Members of the STAT family respond to cytokines and growth factors and are phosphorylated by receptor associated kinase to form homo- or hetero-dimers. These then translocate to the cell nucleus to act as transcription activators. STAT1 is activated by a number of different ligands including the interferon, gp130 and receptor tyrosine kinase families ([Gerhartz et al. 1996](#)). Mutations in the STAT1 gene lead to a number of immunological disorders including severe combined immunodeficiency phenotypes ([Sharfe et al. 2014](#)), or more selective immunodeficiencies to mycobacteria (usually mycobacteria) bacteria, viruses or fungi depending on the mutation or abnormality involved ([Boisson-Dupuis et al. 2012](#)).

Rabbit anti Human STAT1 alpha antibody recognizes human STAT1 alpha as a single band of ~87 kDa in multiple human cell line lysates by western blotting under reducing conditions. It also cross reacts with rodent cell line lysates tested.

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Western Blotting	Anti STAT1 alpha antibody detects a band of approximately 87 kDa in MCF7 cell lysates.
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Storage	Store undiluted at -20°C, avoiding repeated freeze thaw cycles.
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Guarantee	12 months from date of despatch
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Acknowledgements	PrecisionAb is a trademark of Bio-Rad Laboratories.
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Health And Safety Information	Material Safety Datasheet documentation #10040 available at: <a href="https://www.bio-rad-antibodies.com/SDS/VPA00008">https://www.bio-rad-antibodies.com/SDS/VPA00008</a> Antibody (10040)
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Regulatory	For research purposes only
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## Related Products

## Recommended Secondary Antibodies

Goat Anti Rabbit IgG (H/L) (STAR208...) [HRP](#)

**North & South** Tel: +1 800 265 7376

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To find a batch/lot specific datasheet for this product, please use our online search tool at: [bio-rad-antibodies.com/datasheets](https://bio-rad-antibodies.com/datasheets)

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